WEAR CONTAMINATION FLUID CONDITION

NORMAL NORMAL



Machine Id

MV GEEMIA JOYE

Component

CAT C-18 - Port Generator

Fluid

PETRO CANADA DURON HP	15W40 (64 L	iters)					
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Resample at the next service interval to monitor. No other corrective action is recommended at this time.	Sample Number				WC0543069		
	Sample Date				21 Dec 2020		
	Machine Age	hrs			4086		
	Oil Age	hrs			3568		
	Filter Age	hrs			3568		
	Oil Changed				Not Changd		
	Filter Changed				Not Changd		
	Sample Status				NORMAL		
WEAR	Iron	ppm	ASTM D5185(m)	>100	36		
All component wear rates are normal.	Chromium	ppm	ASTM D5185(m)	>20	<1		
	Nickel	ppm	ASTM D5185(m)	>2	<1		
	Titanium	ppm	ASTM D5185(m)	>2	0		
	Silver	ppm	ASTM D5185(m)	>2	0		
	Aluminum	ppm	ASTM D5185(m)	>25	1		
	Lead	ppm	ASTM D5185(m)	>40	6		
	Copper	ppm	ASTM D5185(m)	>330	113		
	Tin	ppm	ASTM D5185(m)	>15	<1		
	Vanadium	ppm	ASTM D5185(m)		0		
CONTAMINATION	Silicon	ppm	ASTM D5185(m)	>25	3		
Light fuel dilution occurring. No other contaminants were detected in the oil.	Potassium	ppm	ASTM D5185(m)	>20	<1		
	Fuel	%	ASTM D3524(m)	>5	1.5		
	Glycol		ASTM D2982		NEG		
	Soot %	%	ASTM D7686	>3	0.3		
	Nitration	Abs/cm	ASTM D7624	>20	9.7		
	Sulfation	Abs/.1mm	ASTM D7415	>30	23.5		
	Emulsified Water	scalar	Visual	>0.2	NEG		
FLUID CONDITION	Sodium	ppm	ASTM D5185(m)		3		
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.	Boron	ppm	ASTM D5185(m)	0	1		
	Barium	ppm	ASTM D5185(m)	0	0		
	Molybdenum	ppm	ASTM D5185(m)	60	58		
	Manganese	ppm	ASTM D5185(m)	0	<1		
	Magnesium	ppm	ASTM D5185(m)	1010	967		
	Calcium	ppm	ASTM D5185(m)	1070	1025		
	Phosphorus	ppm	ASTM D5185(m)		976		
	Zinc	ppm	ASTM D5185(m)	1270	1250		
	Sulfur	ppm	ASTM D5185(m)		2351		
	Oxidation	Abs/.1mm	ASTM D7414		21.2		
	Base Number (BN)	mg KOH/g	ASTM D2896		8.39		
	Visc @ 40°C	cSt	. ,	118.2	91.9		
	Visc @ 100°C	cSt	ASTM D7279(m)		12.7		
Report Id: JAM160POR [WCAMIS] 02404106 (Generated: 02/18/2021 08:28:09)	Viscosity Index (VI)	Scale	ASTM D2270	. 139	134	France -	JAM160POR