

OIL ANALYSIS REPORT

Sample Rating Trend





Area **East Chicago Operations** Machine Io **LIEBHERR R912 MH-85 (S/N 5007455)** Component **Rear Differential**

PETRO CANADA TRAXON 80W90 (--- GAL)

DIAGNOSIS Recommendation

Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

Contamination

There is no indication of any contamination in the oil.

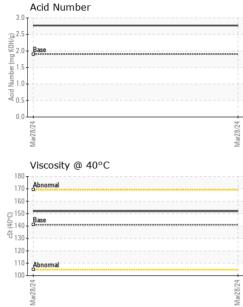
Fluid Condition

The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		PCA0113790		
Sample Date		Client Info		28 Mar 2024		
Machine Age	hrs	Client Info		1838		
Oil Age	hrs	Client Info		1838		
Oil Changed		Client Info		Changed		
Sample Status				NORMAL		
CONTAMINAT	ION	method	limit/base	current	history1	history2
Water		WC Method	>.2	NEG		
WEAR METAL	S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>500	103		
Chromium	ppm	ASTM D5185m	>10	<1		
Nickel	ppm	ASTM D5185m	>10	<1		
Titanium	ppm	ASTM D5185m		0		
Silver	ppm	ASTM D5185m		0		
Aluminum	ppm	ASTM D5185m	>25	1		
Lead	ppm	ASTM D5185m	>25	0		
Copper	ppm	ASTM D5185m	>100	3		
Tin	ppm	ASTM D5185m	>10	0		
Vanadium	ppm	ASTM D5185m		0		
Cadmium	ppm	ASTM D5185m		0		
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	243	79		
Barium	ppm	ASTM D5185m	1	0		
Molybdenum	ppm	ASTM D5185m		0		
Manganese	ppm	ASTM D5185m		2		
Magnesium	ppm	ASTM D5185m	2	16		
Calcium	ppm	ASTM D5185m	6	22		
Phosphorus	ppm	ASTM D5185m	987	1535		
Zinc	ppm	ASTM D5185m	1	17		
Sulfur	ppm	ASTM D5185m	21530	22719		
CONTAMINAN	ITS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>75	4		
Sodium	ppm	ASTM D5185m		2		
Potassium	ppm	ASTM D5185m	>20	1		
FLUID DEGRA	DATION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	1.9	2.77		



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	VISUAL		method	limit/base	current	history1	history2	
	White Metal	scalar	*Visual	NONE	NONE			
	Yellow Metal	scalar	*Visual	NONE	NONE			
	Precipitate	scalar	*Visual	NONE	NONE			
	Silt	scalar	*Visual	NONE	NONE			
	Debris	scalar	*Visual	NONE	NONE			
	Sand/Dirt	scalar	*Visual	NONE	NONE			
Mar28/24	Appearance	scalar	*Visual	NORML	NORML			
Ma	Odor	scalar	*Visual	NORML	NORML			
	Emulsified Water	scalar	*Visual	>.2	NEG			
	Free Water	scalar	*Visual		NEG			
	FLUID PROPE	RTIES	method	limit/base	current	history1	history2	
	Visc @ 40°C	cSt	ASTM D445	141.0	152			
	SAMPLE IMAC	GES	method	limit/base	current	history1	history2	
3/24	Color				no image	no image	no image	
Mar28/24								
	Bottom				no image	no image	no image	
	GRAPHS Iron (ppm)				Lead (ppm)		
	2000 T				50 T)		
	E 1000			e ¹	00 - Severe			
	- Abnormai			ā	Abnormal			
	Mar28/24			Mar28/24	Mar28/24		Mar28/24	
	Aluminum (ppm)			Chromium	Chromium (ppm)			
	150 Severe			³⁰ E ²⁰ 10				
	E 100 50 Abnormal				10 Abnormal			
	0			54			\$6	
	Mar28/24			Mar28/24	Mar28/24		4C/8C/PM	
	≥ Copper (ppm)			2	≥ Silicon (ppi	m)	2	
	300 T			3	⁰⁰ T			
	E 200 Abnormal			5 ²	00 - Severe			
	읍 100 - Abnormal			면 ²¹	00 - Abnormal			
	Mar28/24			Mar28/24	Mar28/24		Mar28/24	
	≊ Viscosity @ 40°C					er	W	
	200 -	0.0 K01(0) 0.0 K01(0) 4 did Number 0.0 K01(0) 4 did Number 0.0 K01(0)			.0 T Page	Pasa		
	Co Honormal Honormal Honormal			2 juint 2	.0 - Base			
	蓉 Abnormal			Numb N	.0			
				Mar28/24	28/24		8/24 -	
	Mar28/24			Mar2	Mar28,24		Mar28/24	
150/ICC (7025	: WearCheck USA - 50 : PCA0113790 r : 06140082 r : 10964890 a : MOB 2	ived : 05 d : 08	r, NC 27513 5 Apr 2024 3 Apr 2024 Apr 2024 - Do	n Baldridge	SCRAP METAL SERVICES 415 E 151ST STREE EAST CHICAGO, IN US 46312 Contact: DAN GERTLEF			
discuss this sample repor Denotes test methods that	t, contact Customer Serv t are outside of the ISO 1	7025 scc		dgertler@scrapmetalservices.cor T: (312)771-499 GM 106:2012) F				

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Submitted By: DAN GERTLER

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