

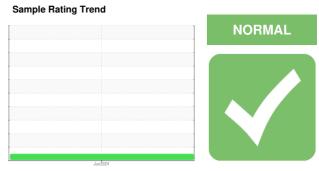
OIL ANALYSIS REPORT

Machine Id

TEREX D16

Component Rear Differential

PETRO CANADA TRAXON 80W90 (--- GAL)



DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

All component wear rates are normal.

Contamination

There is no indication of any contamination in the

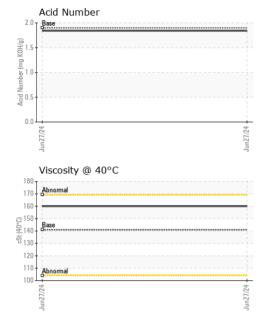
Fluid Condition

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

() DEWIND (GAL)					
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		PCA0128787		
Sample Date		Client Info		27 Jun 2024		
Machine Age	hrs	Client Info		7833		
Oil Age	hrs	Client Info		500		
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
ron	ppm	ASTM D5185m	>500	214		
Chromium	ppm	ASTM D5185m	>10	1		
Nickel	ppm	ASTM D5185m	>10	2		
Titanium	ppm	ASTM D5185m		2		
Silver	ppm	ASTM D5185m		0		
Aluminum	ppm	ASTM D5185m	>25	16		
Lead	ppm	ASTM D5185m	>25	0		
Copper	ppm	ASTM D5185m	>100	5		
Tin	ppm	ASTM D5185m	>10	0		
Vanadium	ppm	ASTM D5185m		<1		
Cadmium	ppm	ASTM D5185m		<1		
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	243	152		
Barium	ppm	ASTM D5185m	1	0		
Molybdenum	ppm	ASTM D5185m		0		
Manganese	ppm	ASTM D5185m		4		
Magnesium	ppm	ASTM D5185m	2	10		
Calcium	ppm	ASTM D5185m	6	33		
Phosphorus	ppm	ASTM D5185m	987	945		
Zinc	ppm	ASTM D5185m	1	12		
Sulfur	ppm	ASTM D5185m	21530	22896		
CONTAMINAN	ITS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>75	70		
Sodium	ppm	ASTM D5185m		3		
Potassium	ppm	ASTM D5185m	>20	2		
FLUID DEGRAI	OATION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	1.9	1.84		



OIL ANALYSIS REPORT



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	LIGHT		
Debris	scalar	*Visual	NONE	NONE		
Sand/Dirt	scalar	*Visual	NONE	NONE		
Appearance	scalar	*Visual	NORML	NORML		
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	160		
SAMPLE IMAG	SES	method	limit/base	current	history1	history2
Color				no image	no image	no image
Bottom				no image	no image	no image
GRAPHS						
Iron (ppm)				Lead (ppm)		
			15	0T :		
Severe 1000			150 E 100	Severe		
Severe Abnormal			E 10	Severe		
Severe Abnormal			E 10	Severe		127/24
Severe Abnormal			E 10	Severe Abnormal		Jun27/24
Severe Abnormal			E 10	Abnomal Abnomal Chromium (p	pm)	Jun27/24
Aluminum (ppm)			#2//27mn #2//27mn #3//27mn	Abnormal 42//Zumi (p	pm)	42/12/nr
Abnomal Abnomal Aluminum (ppm) Severe Abnomal			100 mdd 31 22 mdd 11	Abnormal Abnormal Abnormal Abnormal	pm)	Jun27/24
Abnormal Abnormal Aluminum (ppm) Severe Abnormal Abnormal			100 mdd 51 mdd 51 mdd 110 md 110 mdd 110 md	Abnomal Chromium (p	pm)	
Abnormal Abnormal Aluminum (ppm) Severe Abnormal Abnormal			100 mdd 51	Abnomal Chromium (p	pm)	
Abnomal Abnomal Abnomal Severe Abnomal Severe			100 mdd 31 22 mdd 11	Severe Abnormal Chromium (p Severe Abnormal		- 42/72/nr
Aluminum (ppm) Severe Abnormal Aluminum (ppm) Severe Copper (ppm)			100 mdd 51	Abnormal Abnormal Abnormal Abnormal Asserte Abnormal Asserte Asserte		
Aluminum (ppm) Severe Abnormal Severe Abnormal Severe Copper (ppm)			#2/LZunr 30 wdd 11 30 wdd 20 wdd 11 30 wdd 11	Abnormal Chromium (p Severe Abnormal Abnormal Silicon (ppm)		
Aluminum (ppm) Severe Abnormal Severe Abnormal Severe Copper (ppm)			#2/LZunr 30 wdd 10	Abnormal Chromium (p Severe Abnormal Abnormal Silicon (ppm)		
Abnormal Abnormal Abnormal Abnormal Abnormal Copper (ppm) Severe Abnormal Abnormal Abnormal			### ##################################	Abnormal Severe Abnormal Abnormal Silicon (ppm) Severe Abnormal		Jun27/24
Abnormal Abnormal			45/75muL 45/	Abnormal Abnormal Abnormal Abnormal Abnormal Abnormal Acid Number		
Abnormal Abnormal Abnormal Copper (ppm) Severe Abnormal Viscosity @ 40°C			45/75muL 45/	Abnormal Severe Abnormal Abnormal Silicon (ppm) Severe Abnormal		Jun27/24
Abnormal Abnormal Abnormal Severe Abnormal Copper (ppm) Severe Abnormal Viscosity @ 40°C			45/75muL 45/	Severe Abnormal Chromium (p Severe Abnormal Abnormal Abnormal Abnormal Abnormal Acid Number Base		Jun27/24
Abnormal Abnormal Abnormal Severe Abnormal Copper (ppm) Severe Abnormal Viscosity @ 40°C			45/75muL 45/	Abnormal Severe Abnormal Abnormal Abnormal Abnormal Abnormal Acid Number Base		Jun27/24
Abnormal Copper (ppm) Severe Abnormal Severe Abnormal Viscosity @ 40°C Abnormal Abnormal Abnormal Abnormal Abnormal Abnormal Abnormal			100 mdd 101 50 md 101	Abnormal Severe Abnormal Abnormal Abnormal Abnormal Abnormal Acid Number Base		Jun27/24





Certificate 12367

Sample No. Lab Number : 06226412 Unique Number : 11109905

mdd

: PCA0128787 Test Package : MOB 2

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received

Tested : 03 Jul 2024 Diagnosed : 03 Jul 2024 - Wes Davis

: 02 Jul 2024

SCRAP METAL SERVICES (SMS Mill Services LLC) 1500 COMMERCIAL AVE MINGO JUNCTION, OH US 43938

Contact: TIM RANDOLPH trandolph@scrapmetalservices.com

To discuss this sample report, contact Customer Service at 1-800-237-1369. * - Denotes test methods that are outside of the ISO 17025 scope of accreditation.

Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

Report Id: SCRMIN [WUSCAR] 06226412 (Generated: 07/03/2024 11:43:39) Rev: 1

Submitted By: TIM RANDOLPH

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