

(31184Z) Supreme Leasing-Tractor [Supreme Leasing-Tractor] 149A149319

Diesel Engine

PETRO CANADA DURON SHP 10W30 (11 GAL)

DIAGNOSIS

Recommendation

No corrective action is recommended at this time. Resample at the next service interval to monitor. (Customer Sample Comment: Re-sample mid interval)

Wear

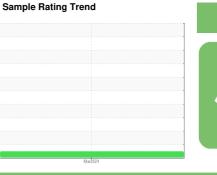
All component wear rates are normal.

Contamination

There is no indication of any contamination in the oil.

Fluid Condition

The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is acceptable for the time in service.





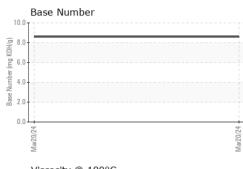
NORMAL

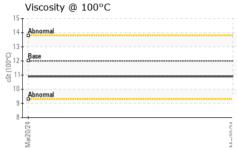
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		PCA0109398		
Sample Date		Client Info		20 Mar 2024		
Machine Age	mls	Client Info		36130		
Oil Age	mls	Client Info		36130		
Oil Changed		Client Info		Not Changd		
Sample Status				NORMAL		
CONTAMINAT	ION	method	limit/base	current	history1	history2
Fuel		WC Method	>2.0	<1.0		
Water		WC Method	>0.2	NEG		
Glycol		WC Method		NEG		
WEAR METAL	S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>100	<1		
Chromium	ppm	ASTM D5185m	>20	0		
Nickel	ppm	ASTM D5185m	>20	0		
Titanium	ppm	ASTM D5185m	77	0		
Silver	ppm	ASTM D5185m	>3	0		
Aluminum	ppm	ASTM D5185m	>20	1		
Lead	ppm	ASTM D5185m	>20	0		
Copper		ASTM D5185m	>330	0		
Tin	ppm	ASTM D5185m	>15	<1		
Vanadium	ppm	ASTM D5185m	>15	< 1		
Cadmium	ppm	ASTM D5185m		0		
	ppm		Long't //n n n n			
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	2	19		
Barium	ppm	ASTM D5185m	0	0		
Molybdenum	ppm	ASTM D5185m	50	55		
Manganese	ppm	ASTM D5185m	0	<1		
Magnesium	ppm	ASTM D5185m	950	893		
Calcium	ppm	ASTM D5185m	1050	965		
Phosphorus	ppm	ASTM D5185m	995	971		
Zinc	ppm	ASTM D5185m	1180	1175		
Sulfur	ppm	ASTM D5185m	2600	3533		
CONTAMINAN	TS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	3		
Sodium	ppm	ASTM D5185m		0		
Potassium	ppm	ASTM D5185m	>20	<1		
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.1		
Nitration	Abs/cm	*ASTM D7624	>20	5.9		
Sulfation	Abs/.1mm	*ASTM D7415	>30	17.6		
FLUID DEGRA	DATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	13.7		
Base Number (BN)	mg KOH/g	ASTM D2896		8.6		
. /	0					



OIL ANALYSIS REPORT

VISUAL





	VISU			method	limit/base	current	history1	history2
-	White Me	etal	scalar	*Visual	NONE	NONE		
	Yellow N	letal	scalar	*Visual	NONE	NONE		
	Precipita		scalar	*Visual	NONE	NONE		
	Silt		scalar	*Visual	NONE	NONE		
	Debris		scalar	*Visual	NONE	NONE		
	Sand/Dir	+	scalar	*Visual	NONE	NONE		
					NORML			
	Appeara	nce	scalar	*Visual		NORML		
	Odor		scalar	*Visual	NORML	NORML		
	Emulsifie		scalar	*Visual	>0.2	NEG		
	Free Wa	ter	scalar	*Visual		NEG		
	FLUI	D PROPE	RTIES	method	limit/base	current	history1	history2
	Visc @ 1		cSt	ASTM D445	12.00	10.9		
	GRAF	PHS						
	Ferrous	s Alloys						
		iron						
		chromium nickel						
	1	indical						
	6							
	udd 4							
	2-							
	25 0		************	*********	24			
	Mar20/24				Mar20/24			
			_		2			
	10 _T	rrous Metal	s 					
		copper						
	8 -	lead tin						
	udd							
	bid							
	4							
	4							
	2							
	2							
	0				24			
	0				lar20/24			
	Mar20/24	hu @ 10000			Mar20/24			
	Viscosi	ty @ 100°C				Base Numbe	r	
	0 +72/02/20 Viscosi 15	ty @ 100°C			9.1	T.	r	
	0 47002ze W Viscosi 15 14 Abnormal	ty @ 100°C			9.1]	r	
	0 +72002/2/2/2/2/2/2/2/2/2/2/2/2/2/2/2/2/2/	ty @ 100°C			9. 8. 6.7.1 10.6) 	r	
	0 +7002/2/2/2/2/2/2/2/2/2/2/2/2/2/2/2/2/2/2	ty @ 100°C			9. 8. 6.7.1 10.6) 	r	
	0 +7002/2/2/2/2/2/2/2/2/2/2/2/2/2/2/2/2/2/2	ty @ 100°C	:		9. 8. 6.7.1 10.6) 	r	
	0 +7002rew Viscosi 14 - Abnormal 13 - Base 14 - Jane - Jan	ty @ 100°C			9. 8. 6.7.1 10.6) 	r	
	Uiscosi 4 4 4 4 5 14 5 14 6 Abnormal 13 13 13 13 14 6 Abnormal 14 13 10 Abnormal 10 10 10 10 10 10 10 10 10 10	ty @ 100°C			9. 8. 6.7.1 10.6) 	r	
	0 +7002rew Viscosi 14 - Abnormal 13 - Base 14 - Jane - Jan	ty @ 100°C			9.1		r	
	Viscosi 15 14 3 13 14 4 5 14 5 14 6 6 6 6 15 14 6 6 6 6 15 14 13 13 13 13 14 13 14 13 14 15 14 15 14 15 14 15 14 15 14 15 15 14 15 15 14 15 15 14 15 15 14 15 15 14 15 15 14 15 15 15 14 15 15 15 15 14 15 15 15 15 15 15 15 15 15 15	ty @ 100°C			9.(6.()()()()()()()()()()()()()()()()()()()) 	r	
	Viscosi 15 14 3 13 14 4 5 14 5 14 6 6 6 6 15 14 6 6 6 6 15 14 13 13 13 13 14 13 14 13 14 15 14 15 14 15 14 15 14 15 14 15 15 14 15 15 14 15 15 14 15 15 14 15 15 14 15 15 14 15 15 15 14 15 15 15 15 14 15 15 15 15 15 15 15 15 15 15	ty @ 100°C			9.(6.()()()()()()()()()()()()()()()()()()()) 	r	
	Uiscosi 4 4 4 4 5 14 5 14 6 Abnormal 13 13 13 13 14 6 Abnormal 14 13 10 Abnormal 10 10 10 10 10 10 10 10 10 10	ty @ 100°C			9.1 8.1 (a) (7.1 (b) (6.1 b) (5.1 4 4,1 3.1 8 2.0 1.1		r	
	Viscosi 15 14 Abnormal 13 14 4 0-001) XS 10 4 4 4 0-001) XS 10 4 4 4 0-001) XS 10 4 4 0 0-001) XS 10 10 10 10 10 10 10 10 10 10				9.1 8.1 (6)(10) 10,(10) 10,(10) 10,(10) 10,(10) 10,(10) 10,(10) 10,(10) 10,(10) 10,(10) 10,(10) 10,(10) 10,(10) 10,(10) 10,(10) 10,(10) 10,(10) 10,(10) 10,(10) 10,(10) 10,(10) 10,(10) 10,(10) 10,(10) 10,(10) 10,(10) 10,(10) 10,(10) 10,(10) 10,(10) 10,(10) 10,(10) 10,(10) 10,(10) 10,(10) 10,(10) 10,(10) 10,(10) 10,(10) 10,(10) 10,(10) 10,(10) 10,(10) 10,(10) 10,(10) 10,(10) 10,(10) 10,(10) 10,(10) 10,(10) 10,(10) 10,(10) 10,(10) 10,(10) 10,(10) 10,(10) 10,(10) 10,(10) 10,(10) 10,(10) 10,(10) 10,(10) 10,(10) 10,(10) 10,(10) 10,(10) 10,(10) 10,(10) 10,(10) 10,(10) 10,(10) 10,(10) 10,(10) 10,(10) 10,(10) 10,(10) 10,(10) 10,(10) 10,(10) 10,(10) 10,(10) 10,(10) 10,(10) 10,(10) 10,(10) 10,(10) 10,(10) 10,(10) 10,(10) 10,(10) 10,(10) 10,(10) 10,(10) 10,(10) 10,(10) 10,(10) 10,(10) 10,(10) 10,(10) 10,(10) 10,(10) 10,(10) 10,(10) 10,(10) 10,(10) 10,(10) 10,(10) 10,(10) 10,(10) 10,(10) 10,(10) 10,(10) 10,(10) 10,(10) 10,(10) 10,(10) 10,(10) 10,(10) 10,(10) 10,(10) 10,(10) 10,(10) 10,(10) 10,(10) 10,(10) 10,(10) 10,(10) 10,(10) 10,(10) 10,(10) 10,(10) 10,(10) 10,(10) 10,(10) 10,(10) 10,(10) 10,(10) 10,(10) 10,(10) 10,(10) 10,(10) 10,(10) 10,(10) 10,(10) 10,(10) 10,(10) 10,(10) 10,(10) 10,(10) 10,(10) 10,(10) 10,(10) 10,(10) 10,(10) 10,(10) 10,(10) 10,(10) 10,(10) 10,(10) 10,(10) 10,(10) 10,(10) 10,(10) 10,(10) 10,(10) 10,(10) 10,(10) 10,(10) 10,(10) 10,(10) 10,(10) 10,(10) 10,(10) 10,(10) 10,(10) 10,(10) 10,(10) 10,(10) 10,(10) 10,(10) 10,(10) 10,(10) 10,(10) 10,(10) 10,(10) 10,(10) 10,(10) 10,(10) 10,(10) 10,(10) 10,(10) 10,(10) 10,(10) 10,(10) 10,(10) 10,(10) 10,(10) 10,(10) 10,(10) 10,(10) 10,(10) 10,(10) 10,(10) 10,(10) 10,(10) 10,(10) 10,(10) 10,(10) 10,(10) 10,(10) 10,(10) 10,(10) 10,(10) 10,(10) 10,(10) 10,(10) 10,(10) 10,(10) 10,(10) 10,(10) 10,(10) 10,(10) 10,(10) 10,(10) 10,(10) 10,(10) 10,(10) 10,(10) 10,(10) 10,(10) 10,(10) 10,(10) 10,(10) 10,(10) 10,(10) 10,(10) 10,(10) 10,(10) 10,(10) 10,(10) 10,(10) 10,(10) 10,(10) 10,(10) 10,(10) 10,(10) 10,(10) 10,(10) 10,(10) 10,(10) 10,(10) 10,(10) 10,(10) 10,(10) 10,(10	Mar20/24		
	Viscosi 15 14 0-001/ 15 14 0-001/ 13 0-001/ 15 14 0-001/ 15 14 0-001/ 15 14 0-001/ 15 15 14 0-001/ 15 15 14 0-001/ 15 15 15 15 14 0-001/ 15 15 15 15 15 15 15 14 0-001/ 15 15 15 15 15 15 15 15 15 15		1 Madiso		9. 8. (a)(A)(A) (b)(A)(A) (a)(A)(A)(A)(A)(A)(A)(A)(A)(A)(A)(A)(A)(A)	transer	vice - Shop 1490 - 1	
).	Viscosi 4 4 4 4 4 4 4 4 4 4 4 4 4		1 Madiso Recei	ved : 22	9.0 (0)(1)(1)(1)(1)(1)(1)(1)(1)(1)(1)(1)(1)(1)	transer		enue, Bldg. 8
o. er	Viscosi Viscosi 15 14 0 40 0 15 14 0 0 0 15 14 0 0 0 0 0 0 0 0 0 0 0 0 0		1 Madiso Recei Teste	ved : 22 d : 26	9.0 (0)(1)(1)(1)(1)(1)(1)(1)(1)(1)(1)(1)(1)(1)	http://www.second	vice - Shop 1490 - 1	enue, Bldg. 8 Chicago,
o. oer ber	Viscosi Viscosi 15 14 0 40 0 15 14 0 0 0 15 14 0 0 0 0 0 0 0 0 0 0 0 0 0		1 Madiso Recei	ved : 22 d : 26	9.0 (0)(1)(1)(1)(1)(1)(1)(1)(1)(1)(1)(1)(1)(1)	http://www.second	vice - Shop 1490 - 01 W. Touhy Ave	enue, Bldg. 8 Chicago, US 606
nber age	Viscosi Viscosi 15 14 0 40 0 15 14 0 0 0 15 14 0 0 0 0 0 0 0 0 0 0 0 0 0		1 Madiso Recei Teste Diagn	ved : 22 d : 26 losed : 26	9.0 8.1 9.1 9.1 9.1 9.1 9.1 9.1 9.1 9	http://www.second	vice - Shop 1490 - 3 01 W. Touhy Ave Conta	enue, Bldg. 8 Chicago

To discuss this sample * - 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)

Certificate L2367

F: